Journal of Radioanalytical and Nuclear Chemistry, Articles, Vol. 147, No. 2 (1991) 417–420

Index to Volume 147

Contents of Volume 147

No. 1

Analytical Chemistry

B. F. Myasoedov, I. A. Lebedev (Moscow, USSR)
Latest achievements in the analytical chemistry of actinides 5

M. V. Ryzhinsky, A. V. Stepanov (Leningrad, USSR)
Standard reference materials in analytical chemistry of uranium and plutonium 27

A. I. Karelin, E. N. Semenov, N. A. Mikhailova (Tomsk; USSR)
Coulometric determination of neptunium 33

M. A. Abuzwida, A. G. Maslennikov, V. F. Peretrukhin (Tripoli, Libya and Moscow, USSR)
Voltamperometric determination of uranium and plutonium in alkaline solutions 41

F. Zantuti, B. Al-Medehem, V. I. Silin, V. F. Peretrukhin (Tripoli, Libya and Moscow, USSR)
Electrodeposition of actinide traces from aqueous alkaline solutions and tributyl phosphate 51

S. A. Bakiyev, A. A. Kist, Zh. Rakhmanov, E. S. Flitsiyan (Tashkent, USSR)
Use of ^{252}Cf for elemental analysis 59

T. Mitsugashira, Y. Koma, S. Hirai, I. Okada, N. Kurashima, H. Sakurai (Sendai and Kawasaki, Japan)
Neutron activation analysis for ultra low contents of uranium and thorium in aluminium and silica 69

A. E. Konyaev, V. F. Kositsyn (Moscow, USSR)
Determination of spontaneously fissioning actinide activity by neutron correlation method 79

A. E. Konyaev, V. F. Kositsyn, V. S. Fedorov (Moscow, USSR)
Neutron methods of actinide assay and their metrological support 85

O. K. Timonina, B. K. Zuev, B. F. Myasoedov, N. E. Babulevich, S. S. Yakimov (Moscow, USSR)
A method for hydrogen content control of UO_2 fuels 91

B. Gleisberg, B. M. Ly, B. Gorski (Dubna, USSR)
Investigations of the separation of Np, Pa, U, Th and REE in geological samples 95

Elsevier Sequoia S. A., Lausanne
Akadémiai Kiadó, Budapest

INDEX TO VOLUME 147

Actinides in Environment and Waste Disposal Problem

G. R. Choppin (Tallahassee, Florida, USA)
Redox speciation of plutonium in natural waters 109

K. H. Lieser, R. Hill, U. Mühlenweg, R. N. Singh, Tu Shu-de, Th. Steinkopff (Darmstadt, FRG)
Actinides in the environment 117

F. I. Pavlotskaya, T. A. Goryachenkova, B. F. Myasoedov (Moscow, USSR)
Behaviour of transuranium elements in the environment 133

A. S. Krivokhatsky, Yu. V. Dubasov, E. A. Smirnova, N. V. Skovorodkin, V. G. Savonenkov, B. M. Alexandrov, E. L. Lebedev (Leningrad, USSR)
Actinides in the near release from the Chernobyl NPP accident 141

T. A. Goryachenkova, F. I. Pavlotskaya, B. F. Myasoedov (Moscow, USSR)
Forms of occurrence of plutonium in soils 153

F. I. Pavlotskaya, I. Ye. Kazinskaya, E. M. Korobova, B. F. Myasoedov, V. V. Emelyanov (Moscow, USSR)
Migration of Chernobyl plutonium in soils 159

M. Yamamoto, Y. Yamauchi, K. Chatani, S. Igarashi, K. Komura, K. Ueno, M. Sakanoue (Tatsunokuchi and Harame, Japan)
Distribution of global fallout ^{237}Np, Pu isotopes, and ^{241}Am in lake and sea sediments 165

Yang Dazhu, Zhu Yongjun, S. Möbius (Beijing, China and Karlsruhe, FRG)
Rapid method for alpha counting with extractive scintillator and pulse shape analysis 177

I. A. Ivanov, V. M. Sedov, A. N. Gulin, V. M. Shatkov, E. A. Shashukov (Leningrad, USSR)
Diffusion of actinides in glasses containing simulated radioactive wastes 191

Additional

N. P. Zvereva, S. D. Lazarev, N. E. Teterin, V. I. Filippov, S. S. Yakimov, V. Ya. Goncharov (Moscow, USSR)
A method for determination of hydrogen content in uranium dioxide samples using a semiconductor sensor 197

A. B. Yusov, A. M. Fedoseev (Moscow, USSR)
Curium and americium chemiluminescence in redox reactions 201

No. 2

Y. Sensui, K. Tomura (Tokyo and Yokosuka, Japan)
Chemical effect of ^{13}N formed in butyric-d$_7$ acid irradiated in a pile 207

E. Szabó–Bárdos, L. Wojnárovits, A. Horváth (Veszprém and Budapest, Hungary)
Pulse radiolysis studies on $[Fe(CN)_6]^{4-}$–BrO_3^-–CN^- system in ethylene glycol – water solutions 215

A. Martinez Lobo, J. Palomares (Madrid, Spain)
On the determination of ^{226}Ra in soils and uranium ores by direct gamma-ray spectrometry 225

M. B. H. Al-Bedri, S. Al-Jobori (Baghdad, Iraq)
Multielement determination in river water by neutron activation analysis 235

Y. F. Shafiq, S. A. Al-Safi, M. A. M. Abdel-Azeez, A. K. Galhoom, H. H. Samawi (Baghdad, Iraq)
Simple and rapid methods for labelling of human IgG by four radionuclides 243

A. Mushtaq, M. S. Mansoor, H. M. A. Karim, M. A. Khan (Islamabad and Lahore, Pakistan)
Hydrated titanium dioxide as an adsorbent for ^{99}Mo–^{99m}Tc generator 257

H. Bem, Y. Y. Bakir, S. M. Shuker (Qadeseyah, Kuwait)
A rapid method for the determination of strontium-90 in powdered milk 263

I. O. Essien (Uyo, Nigeria)
Contamination of the earth's surface by plutonium and uranium fallout 269

Mao Jia-Jun, Zhou Zuming, Qin Qizong (Shanghai, P. R. China)
Preparation of uranium(III) by mercury cathode electrolysis and its absorption spectra in hydrochloric acid solution 277

Mao Jia-Jun, Jia Wei-Jie, Shao Xing-Zhi, Chen Yu-De (Shanghai, P. R. China)
Synergistic extraction of uranium(VI) with 1-phenyl-3-methyl-4-acylpyrazolone-5 and neutral extractants 287

K. Shakir, M. Aziz, Sh. G. Beheir (Cairo, Egypt)
Extraction of certain actinide and lanthanide elements from different acidic media by polyurethane foams loaded with di-(2-ethylhexyl)phosphoric acid (HDEHP), I. 297

K. Shakir, M. Aziz, Sh. G. Beheir (Cairo, Egypt)
Extraction of certain actinide and lanthanide elements from different acidic media by polyurethane foams loaded with di-(2-ethylhexyl)phosphoric acid (HDEHP), II. 309

V. V. Ivanenko, V. V. Kovalenko, V. N. Kustov, A. I. Grigorev, A. Yu. Metelev (Vladivostok, USSR)
Nuclear methods of elemental analysis of ocean bottom sediments 321

N. Botros, S. El-Bayoumy, M. El-Garhy, S. A. Marei (Cairo, Egypt)
Separation of some lanthanides on potassium zinc hexacyanoferrate ion exchanger 333

INDEX TO VOLUME 147

M. M. Goldshtein, I. V. Mirotin, O. K. Nikolaenko, I. G. Yudelevich (Novosibirsk and Moscow, USSR)
Neutron activation determination of oxygen in ceramic materials on the basis of yttrium, barium and copper 341

D. Bódizs, S. Dési, G. Keömley, T. Pintér (Budapest and Paks, Hungary)
Determination of radioactivity concentrations of fission products in the primary coolant of nuclear power plants 347

Asha Jain, O. V. Singh, S. N. Tandon (Roorkee, India)
Extraction of lanthanoids and some associated elements by mono-(2-ethylhexyl)-phosphoric acid and their separations 355

Li Guodong, Tong Chunhan (Sichuan, China)
Instrumental NAA of carbonate rocks and its application for the analysis of secondary sedimentary environments in shallow sea 363

Kulwant Singh, K. Singh (Amritsar, India)
Determination of perturbed angular correlation parameters in some compounds of ^{133}Ba using the sum peak method 371

Wang Xiaolin, Chen Yinliang, Wang Xiuyuan, Sun Ying, Fu Yibei, Guo Gaopin (Sichuan, P. R. China)
Neutron activation analysis of gold and iridium in steel 377

Bibliographic Collections

E. Bujdosó (Budapest, Hungary)
Environmental radiochemistry and radioactivity 385

E. Bujdosó (Budapest, Hungary)
Analysis by absorption and scattering of radiation 403

Index to Volume 147 417

Journal of Radioanalytical and Nuclear Chemistry, Articles, Vol. 147, No. 2 (1991) 421–425

Author Index to Volume 147

ABDEL-AZEEZ, M. A. M., *see* SHAFIQ, Y. F., 243

ABUZWIDA, M. A., MASLENNIKOV, A. G., PERETRUKHIN, V. F.: Voltamperometric determination of uranium and plutonium in alkaline solutions, 41

AL-BEDRI, M. B. H., AL-JOBORI, S.: Multielement determination in river water by neutron activation analysis, 235

ALEXANDROV, B. M., *see* KRIVOKHATSKY, A. S., 141

AL-JOBORI, S., *see* AL-BEDRI, M. B. H., 235

AL-MEDEHEM, B., *see* ZANTUTI, F., 51

AL-SAFI, S. A., *see* SHAFIQ, Y. F., 243

AZIZ, M., *see* SHAKIR, K., 297, 309

BABULEVICH, N. E., *see* TIMONINA, O. K., 91

BAKIR, Y. Y., *see* BEM, H., 263

BAKIYEV, S. A., KIST, A. A., RAKHMANOV, Zh., FLITSIYAN, E. S.: Use of ^{252}Cf for elemental analysis, 59

BEHEIR, Sh. G., *see* SHAKIR, K., 297, 309

BEM, H., BAKIR, Y. Y., SHUKER, S. M.: A rapid method for the determination of strontium-90 in powdered milk, 263

BÓDIZS, D., DÉSI, S., KEÖMLEY, G., PINTÉR, T.: Determination of radioactivity concentrations of fission products in the primary coolant of nuclear power plants, 347

BOTROS, N., EL-BAYOUMY, S., EL-GARHY, M., MAREI, S. A.: Separation of some lanthanides on potassium zinc hexacyanoferrate ion exchanger, 333

BUJDOSÓ, E.: Analysis by absorption and scattering of radiation, 403

BUJDOSÓ, E.: Environmental radiochemistry and radioactivity, 385

CHATANI, K., *see* YAMAMOTO, M., 165

CHEN, YINLIANG, *see* WANG, XIAOLIN, 377

CHEN, YU-DE, *see* MAO, JIA-JUN, 287

CHOPPIN, G. R.: Redox speciation of plutonium in natural waters, 109

DÉSI, S., *see* BÓDIZS, D., 347

DUBASOV, Yu. V., *see* KRIVOKHATSKY, A. S., 141

EL-BAYOUMY, S., *see* BOTROS, N., 333

EL-GARHY, M., *see* BOTROS, N., 333

EMELYANOV, V. V., *see* PAVLOTSKAYA, F. I., 159

ESSIEN, I. O.: Contamination of the earth's surface by plutonium and uranium fallout, 269

FEDOROV, V. S., *see* KONYAEV, A. E., 85

FEDOSEEV, A. M., *see* YUSOV, A. B., 201

FILIPPOV, V. I., *see* ZVEREVA, N. P., 197

FLITSIYAN, E. S., *see* BAKIYEV, S. A., 59

Elsevier Sequoia S. A., Lausanne
Akadémiai Kiadó, Budapest

AUTHOR INDEX

FU, YIBEI, *see* WANG, XIAOLIN, 377

GALHOOM, A. K., *see* SHAFIQ, S. A., 243

GLEISBERG, B., LY, B. M., GORSKI, B.: Investigations of the separation of Np, Pa, U, Th and REE in geological samples, 95

GOLDSHTEIN, M. M., MIROTIN, I. V., NIKOLAENKO, O. K., YUDELEVICH, I. G.: Neutron activation determination of oxygen in ceramic materials on the basis of yttrium, barium and copper, 341

GONCHAROV, V. Ya., *see* ZVEREVA, N. P., 197

GORSKI, B., *see* GLEISBERG, B., 95

GORYACHENKOVA, T. A., PAVLOTSKAYA, F. I., MYASOEDOV, B. F.: Forms of occurrence of plutonium in soils, 153

GORYACHENKOVA, T. A., *see* PAVLOTSKAYA, F. I., 133

GRIGOREV, A. I., *see* IVANENKO, V. V., 321

GULIN, A. N., *see* IVANOV, I. A., 191

GUO, GAOPIN, *see* WANG, XIAOLIN, 377

HILL, R., *see* LIESER, K. H., 117

HIRAI, S., *see* MITSUGASHIRA, T., 69

HORVÁTH, A., *see* SZABÓ-BÁRDOS, E., 215

IGARASHI, S., *see* YAMAMOTO, M., 165

IVANENKO, V. V., KOVALENKO, V. V., KUSTOV, V. N., GRIGOREV, A. I., METELEV, A. Yu.: Nuclear methods of elemental analysis of ocean bottom sediments, 321

IVANOV, I. A., SEDOV, V. M., GULIN, A. N., SHATKOV, V. M., SHASKUKOV, E. A.: Diffusion of actinides in glasses containing simulated radioactive wastes, 191

JAIN, ASHA; SINGH, O. V., TANDON, S. N.: Extraction of lanthanoids and some associated elements by mono-(2-ethylhexyl)phosphoric acid and their separations, 355

JIA, WEI-JIE, *see* MAO, JIA-JUN, 287

KARELIN, A. I., SEMENOV, E. N., MIKHAILOVA, N. A.: Coulometric determination of neptunium, 33

KARIM, H. M. A., *see* MUSHTAQ, A., 257

KAZINSKAYA, I. Ye., *see* PAVLOTSKAYA, F. I., 159

KEÖMLEY, G., *see* BÓDIZS, D., 347

KHAN, M. A., *see* MUSHTAQ, A., 257

KIST, A. A., *see* BAKIYEV, S. A., 59

KOMA, Y., *see* MITSUGASHIRA, T., 69

KOMURA, K., *see* YAMAMOTO, M., 165

KONYAEV, A. E., KOSITSYN, V. F.: Determination of spontaneously fissioning actinide activity by neutron correlation method, 79

KONYAEV, A. E., KOSITSYN, V. F., FEDOROV, V. S.: Neutron methods of actinide assay and their metrological support, 85

KOROBOVA, E. M., *see* PAVLOTSKAYA, F. I., 159

KOSITSYN, V. F., *see* KONYAEV, A. E., 79, 85

KOVALENKO, V. V., *see* IVANENKO, V. V., 321

KRIVOKHATSKY, A. S., DUBASOV, Yu. V., SMIRNOVA, E. A., SKOVORODKIN, N. V., SAVONENKOV, V. G., ALEXANDROV, B. M., LEBEDEV, E. L.: Actinides in the near release from the Chernobyl NPP accident, 141

KURASHIMA, N., *see* MITSUGASHIRA, T., 69

KUSTOV, V. N., *see* IVANENKO, V. V., 321

LAZAREV, S. D., *see* ZVEREVA, N. P., 197

LEBEDEV, E. L., *see* KRIVOKHATSKY, A. S., 141

LEBEDEV, I. A., *see* MYASOEDOV, B. F., 5

LI, GUODONG; TONG, CHUNHAN: Instrumental NAA of carbonate rocks and its application for the analysis of secondary sedimentary environments in shallow sea, 363

LIESER, K. H., HILL, R., MÜHLENWEG, U., SINGH, R. N.; TU, SHU-DE; STEINKOPFF, Th.: Actinides in the environment, 117

LY, B. M., *see* GLEISBERG, B., 95

MANSOOR, M. S., *see* MUSHTAQ, A., 257

MAO, JIA-JUN; JIA, WEI-JIE; SHAO, XING-ZHI; CHEN, YU-DE: Synergistic extraction of uranium(VI) with 1-phenyl-3-methyl-4-acylpyrazolone-5 and neutral extractants, 287

MAO, JIA-JUN; ZHOU, ZUMING; QIN, QIZONG: Preparation of uranium(III) by mercury cathode electrolysis and its absorption spectra in hydrochloric acid soluton, 277

MAREI, S. A., *see* BOTROS, N., 333

MARTINEZ LOBO, A., PALOMARES, J.: On the determination of ^{226}Ra in soils and uranium ores by direct gamma-ray spectrometry, 225

MASLENNIKOV, A. G., *see* ABUZWIDA, M. A., 41

METELEV, A. Yu., *see* IVANENKO, V. V., 321

MIKHAILOVA, N. A., *see* KARELIN, A. I., 33

MIROTIN, I. V., *see* GOLDSHTEIN, M. M., 341

MITSUGASHIRA, T., KOMA, Y., HIRAI, S., OKADA, I., KURASHIMA, N., SAKURAI, H.: Neutron activation analysis for ultra-low contents of uranium and thorium in aluminium and silica, 69

MÖBIUS, S., *see* YANG, DAZHU, 177

MÜHLENWEG, U., *see* LIESER, K. H., 117

MUSHTAQ, A., MANSOOR, M. S., KARIM, H. M. A., KHAN, M. A.: Hydrated titanium dioxide as an adsorbent for ^{99}Mo–^{99m}Tc generator, 257

MYASOEDOV, B. F., LEBEDEV, I. A.: Latest achievements in the analytical chemistry of actinides, 5

MYASOEDOV, B. F., *see* GORYACHENKOVA, T. A., 153

MYASOEDOV, B. F., *see* PAVLOTSKAYA, F. I., 133, 153

MYASOEDOV, B. F., *see* TIMONINA, O. K., 91

NIKOLAENKO, O. K., *see* GOLDSHTEIN, M. M. 341

OKADA, I., *see* MITSUGASHIRA, T., 69

PALOMARES, J., *see* MARTINEZ LOBO, A., 225

PAVLOTSKAYA, F. I., KAZINSKAYA, I. Ye., T. A., MYASOEDOV, B. F.: Behaviour of transuranium elements in the environment, 133

PAVLOSKAYA, F. I., KAZINSKAYA, I. Ye., KOROBOVA, E. M., MYASOEDOV, B. F., EMELYANOV, V. V.: Migration of Chernobyl plutonium in soils, 159

PAVLOTSKAYA, F. I., *see* GORYACHENKOVA, T. A., 153

PERETRUKHIN, V. F., *see* ABUZWIDA, M. A., 41

PERETRUKHIN, V. F., *see* ZANTUTI, F., 51

PINTÉR, T., *see* BÓDIZS, D., 347

QIN, QIZONG, *see* MAO, JIA-JUN, 277

RAKHMANOV, Zh., *see* BAKIYEV, S. A., 59

RYZHINSKY, M. V., STEPANOV, A. V.: Standard reference materials in analytical chemistry of uranium and plutonium, 27

SAKANOUE, M., *see* YAMAMOTO, M., 165

SAKURAI, H., *see* MITSUGASHIRA, T., 69

SAMAWI, H. H., *see* SHAFIQ, S. A., 243

SAVONENKOV, V. G., *see* KRIVOKHATSKY, A. S., 141

SEDOV, V. M., *see* IVANOV, I. A., 191

SEMENOV, E. N., *see* KARELIN, A. I., 33

SENSUI, Y., TOMURA, K.: Chemical effect of ^{13}N formed in butyric-d_7 acid irradiated in a pile, 207

SHAFIQ, Y. F., AL-SAFI, S. A., ABDELAZEEZ, M. A. M., GALHOOM, A. K., SAMAWI, H. H.: Simple and rapid methods for labelling of human IgG by four radionuclides, 243

SHAKIR, K., AZIZ, M., BEHEIR, Sh. G.: Extraction of certain actinide and lanthanide elements from different acidic media by polyurethane foams loaded with di-(2-ethylhexyl)phosphoric acid (HDEHP), I., 297

SHAKIR, K., AZIZ, M., BEHEIR, Sh. G.: Extraction of certain actinide and lanthanide elements from different acidic media by polyurethane foams loaded with di-(2-ethylhexyl)phosporic acid (HDEHP), II., 309

SHAO, XING-ZHI, *see* MAO, JIA-JUN, 287

SHASHUKOV, E. A., *see* IVANOV, I. A., 191

SHATKOV, V. M., *see* IVANOV, I. A., 191

SHUKER, S. M., *see* BEM, H., 263

SILIN, V. I., *see* ZANTUTI, F., 51

SINGH, K., *see* SINGH, KULWANT, 371

SINGH, KULWANT; SINGH, K.: Determination of perturbed angular correlation parameters in some compounds of ^{133}Ba using the sum peak method, 371

SINGH, O. V., *see* JAIN, ASHA, 355

SINGH, R. N., *see* LIESER, K. H., 117

SKOVORODKIN, N. V., *see* KRIVOKHATSKY, A. S., 141

SMIRNOVA, E. A., *see* KRIVOKHATSKY, A. S., 141

STEINKOPFF, Th., *see* LIESER, K. H., 117

STEPANOV, A. V., *see* RYZHINSKY, M. V., 27

SUN, YING, *see* WANG, XIAOLIN, 377

SZABÓ-BÁRDOS, E., WOJNÁROVITS, L., HORVÁTH, A.: Pulse radiolysis studies on $[Fe(CN)_6]^{4-}$—BrO_3^-—CN^- system in ethylene glycol – water solutions, 215

TANDON, S. N., *see* JAIN, ASHA, 355

TETERIN, N. E., *see* ZVEREVA, N. P., 197

TIMONINA, O. K., ZUEV, B. K., MYASOEDOV, B. F., BABULEVICH, N. E., YAKIMOV, S. S.: A method for hydrogen content control of UO_2 fuels, 91

TOMURA, K., *see* SENSUI, Y., 207

TONG, CHUNHAN, *see* LI, GUODONG, 363

TU, SHU-DE, *see* LIESER, K. H., 117

UENO, K., *see* YAMAMOTO, M., 165

WANG, XIAOLIN; CHEN, YINLIANG; WANG, XIUYUAN; SUN, YING; FU, YIBEI; GUO, GAOPIN: Neutron activation analysis of gold and iridium in steel, 377

WANG, XIUYUAN, *see* WANG, XIAOLIN, 377

WOJNÁROVITS, L., *see* SZABÓ-BÁRDOS, E. 215

YAKIMOV, S. S., *see* TIMONINA, O. K., 91

YAKIMOV, S. S., *see* ZVEREVA, N. P., 197

YAMAMOTO, M., YAMAUCHI, Y., CHATANI, K., IGARASHI, S., KOMURA, K., UENO, K., SAKANOUE, M.: Distribution of global fallout ^{237}Np, Pu isotopes, and ^{241}Am in lake and sea sediments, 165

YAMAUCHI, Y., *see* YAMAMOTO, M., 165

YANG, DAZHU; ZHU, YONGJUN; MÖBIUS, S.: Rapid method for alpha-counting with extractive scintillator and pulse shape analysis, 177

YUDELEVICH, I. G., *see* GOLDSHTEIN, M. M., 341

YUSOV, A. B., FEDOSEEV, A. M.: Curium and americium chemiluminescence in redox reactions, 201

ZANTUTI, F., AL-MEDEHEM, B., SILIN, V. I., PERETRUKHIN, V. F.: Electrodeposition of actinide traces from aqueous alkaline solutions and tributyl phosphate, 51

ZHOU, ZUMING, *see* MAO, JIA-JUN, 277

ZHU, YONGJUN, *see* YANG, DAZHU, 177

ZUEV, B. K., *see* TIMONINA, O. K., 91

ZVEREVA, N. P., LAZAREV, S. D., TETERIN, N. E., FILIPPOV, V. I., YAKIMOV, S. S., GONCHAROV, V. Ya.: A method for determination of hydrogen content in uranium dioxide samples using a semiconductor sensor, 197